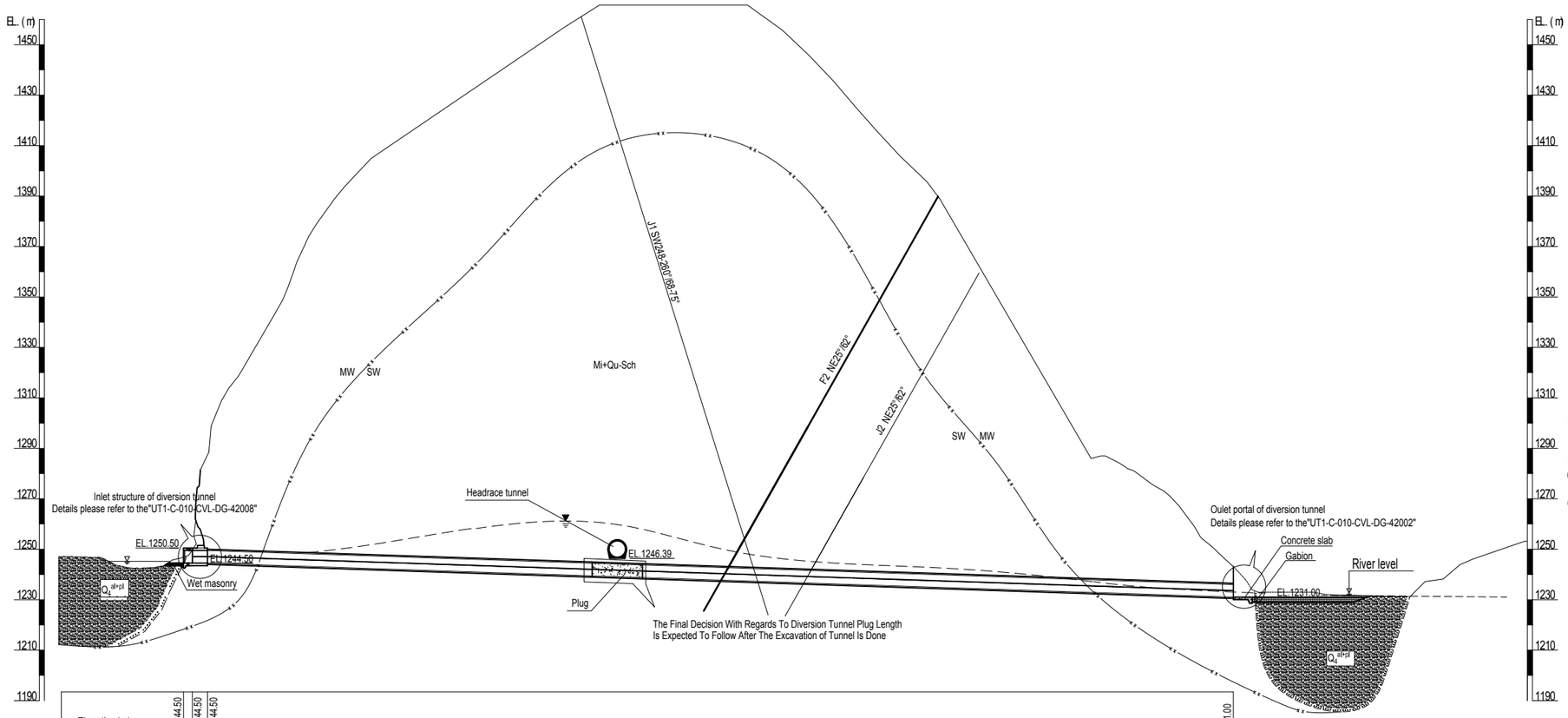
# Longitudinal Profile of Diversion Tunnel

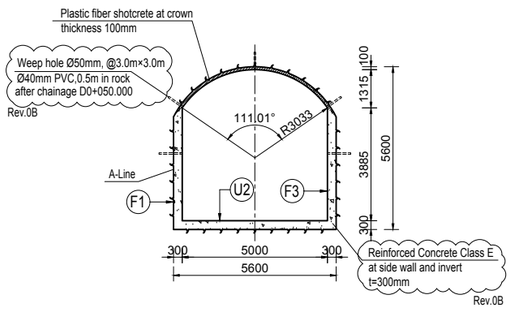
Scale 1:1000




| | | |

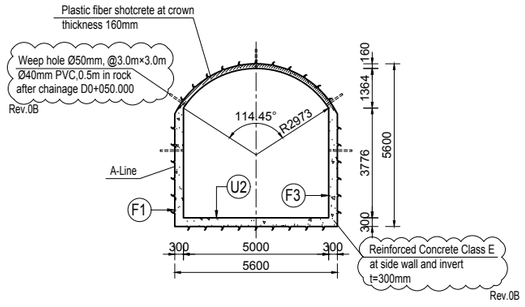
## Typical Cross Section D1
(for rock class II)

Scale 1:100



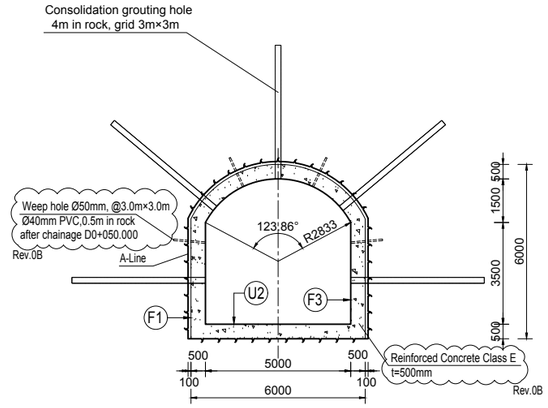

## Typical Cross Section D2
(for rock class III)

Scale 1:100




## Typical Cross Section D3
(for rock class IV)

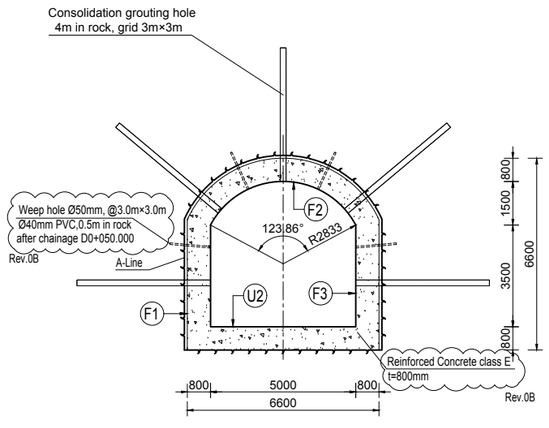
Scale 1:100




## Typical Cross Section D4 (for plug)

CHAINAGE D0+158.607-D0+178.607

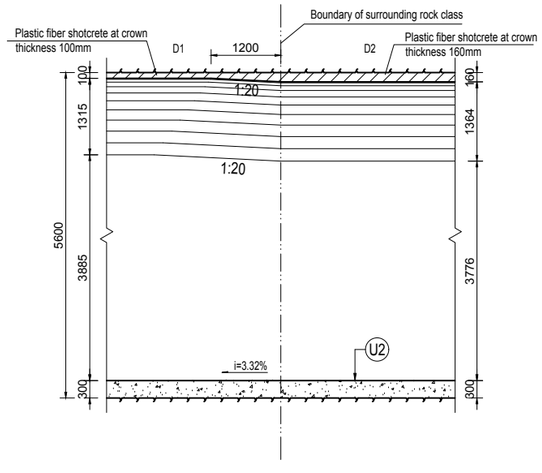
Scale 1:100




## Transition Profile Between D1&D2

Rev.0B

Scale 1:50




Rev.0B

Formed Surfaces

- (F1) Upon or against which backfill or concrete is to be placed.
- (F2) Not permantently concealed by backfill or concrete,and not required to have F3 or higher.
- (F3) Structures prominently exposed to public view where appearance is of special importance.
- (F4) Subject to destructive water flow velocities including the surfaces within 3m D/S of hydraulic gates.

Unformed Surfaces - not used in this drawing

- (U1) Screeded finish - not used in this drawing
- (U2) Floated finish
- (U3) Troweled finish - not used in this drawing

SCALE:

1:100 0 1 2 3 4 5m

### NOTE

1. Coordinates, chainages & elevations are in meters,and all dimensions are in millimeters unless otherwise stated.
2. Symbol description:
   A-Line is the design excavation line.
   D denotes deformed bar, yield strength of the deformed bar is 500MPa;
3. Strength specification of concrete & shotcrete:
   (1) Concrete class E: Cylinder specified compressive strength 24MPa at 28 days.
   (2) Shotcrete: Cylinder specified compressive strength 25MPa at 28 days.
4. Grouting requirement: consolidation grouting pressure should be determined according to surrounding rock condition and grouting experiment. Consolidation grouting hole is no less than 47.5mm.
5. The construction joints shall be determined by constructor according to the Contract ANNEX 13 Part C 17.3.1.

Rev.0B

Rev.0B

### REFERENCE DRAWINGS

| | |
|---|---|
| UT1-PC-DHI-TE-MS-037 | Concrete Linning Method Statement of DT |
| UT1-C-010-CVL-DG-42001 | Arrangement Drawing of Diversion Tunnel |
| UT1-C-010-CVL-DG-42002 | Excavation and Support Drawing of Inlet and Outlet of Diversion Tunnel |
| UT1-C-010-CVL-DG-42003 | Excavation and Initial Support Drawing of Diversion Tunnel |
| UT1-C-010-CVL-DG-42008 | Outline of Diversion Tunnel Intake Tower |

SYMBOL AND LEGEND

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| REV. NO. | DATE | DESCRIPTION | DRAWN | CHKD. | APPD. |
|---|---|---|---|---|---|
| 0B | 14.APR.2022 | As RN-0108 | DONG Z.Z. | K.J. KIM | Y.S. SON |
| 0A | 15.MAR.2022 | FIRST ISSUE | DONG Z.Z. | K.J. KIM | Y.S. SON |

PROJECT TITLE

Upper Trishuli-1 HEP (216MW)

OWNER

NWEDC NEPAL WATER AND ENERGY DEVELOPMENT CO. PVT. LTD.

OWNER'S ENGINEER

TRACTEBEL ENGIE jade CONSULT

CONTRACTOR

DOOSAN Doosan Heavy Industries & Construction

DRAWING TITLE

OUTLINE DRAWING OF DIVERSION TUNNEL LINING(2/3)

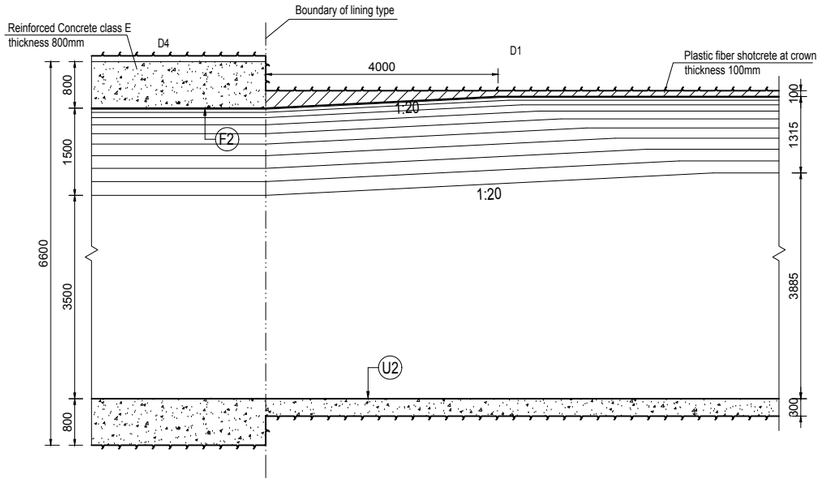
| DRAWING NUMBER | SHEET NO. | REV. NO. |
|---|---|---|
| UT1-C-010-CVL-DG-42005-2 | 2 OF 3 | 0B |

A1 (594 x 841 MM)

## Transition Profile Between D4 and D1

Rev.0B

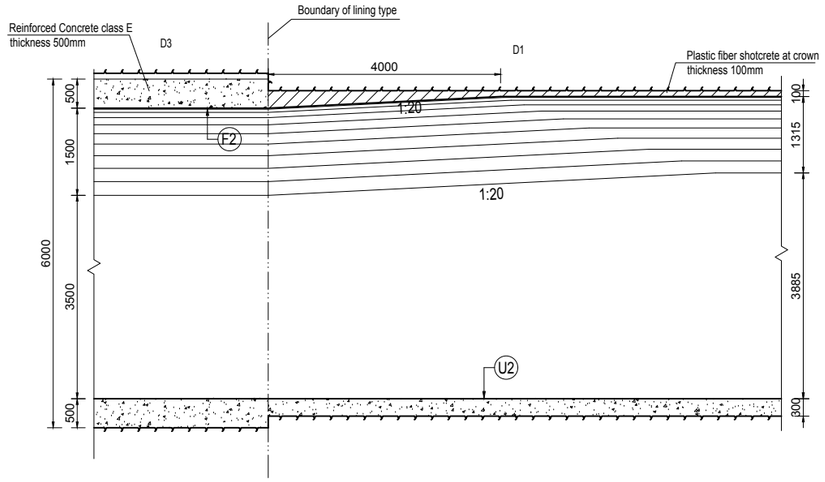
Scale 1:50




## Transition Profile Between D3 and D1

Rev.0B

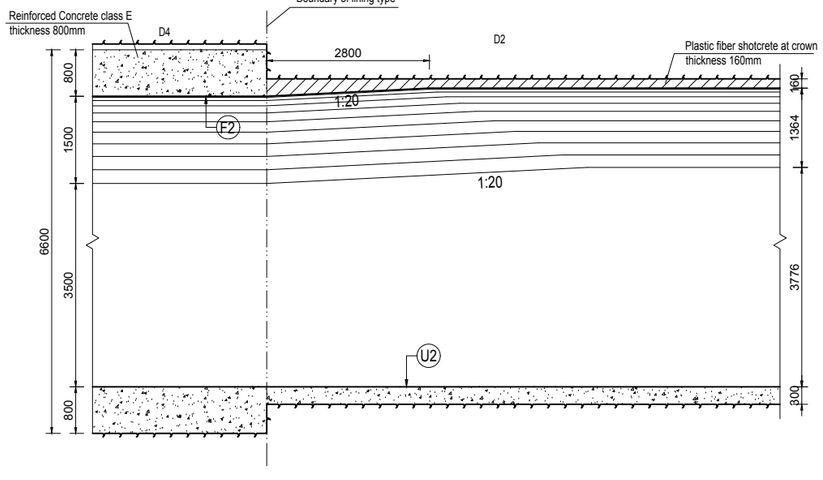
Scale 1:50




## Transition Profile Between D4 and D2

Rev.0B

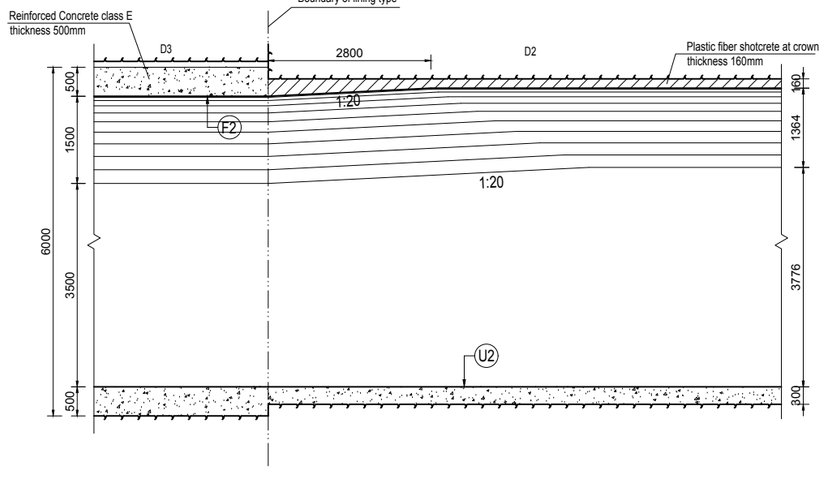
Scale 1:50




## Transition Profile Between D3 and D2

Rev.0B

Scale 1:50




SCALE:

1:50 0 0.5 1.0 1.5 2.0 2.5m

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Rev.0B

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| DRAWING NUMBER | SHEET NO. | REV. NO. |
|---|---|---|
| UT1-C-010-CVL-DG-42005-3 | 3 OF 3 | 0B |

A1 (594 x 841 MM)